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L1: Entry 3 of 5

File: USPT

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DOCUMENT-IDENTIFIER: US 6088002 A

TITLE: Antenna system

Detailed Description Text (28):

Each dipole row are fed in parallel from the lobe shaping unit. The lobe shaping unit is in its simplest form a Butler matrix or similar phase shifting equipment. The lobe shaping unit is shifting the phase of each individual input to the antenna inputs. The phase-shifted signals will when applied to all eight inputs radiate in a combined pattern at an angle from the antenna plane with a main power variable distribution width of about 15.degree.. Each antenna array or sector with eight dipole rows (inputs) can form eight independent lobes. Thus, using a 8 section antenna,  $8 \times 8 = 64$  individually controllable lobes are obtained.

Detailed Description Text (58):

The scanning lobe principle, the low noise amplifiers, the combiner, the base station controller principle and the lobe shaping unit are described more in detail and separately claimed in the above-mentioned patent applications.

Detailed Description Text (59):

New combiners are installed together with a lobe shaping unit and a new base station controller. The combiners will interface existing radio equipment to the new antenna system. Between the antenna array and the combiners a lobe shaping unit will be installed for phase control and lobe forming.